yumeng ma

HUMAN-AI INTERACTION · ACCESSIBILITY · VISUAL & SOCIAL COMPUTING

Education _____

University of Washington

Seattle, WA

PHD IN COMPUTER SCIENCE AND ENGINEERING (HUMAN-COMPUTER INTERACTION)

Starting Fall 2024

Advisor: Jacob O. Wobbrock

Brown University

Providence. RI

Sc.M in Computer Science

2022 - 2024

GPA: 4.0 / 4.0 Advisor: Jeff Huang

Arizona State University

Tempe. AZ

B.S. IN COMPUTER SCIENCE AND PSYCHOLOGY

2019 - 2022

Barrett Honors College

GPA: 4.0 / 4.0 Summa Cum Laude

Thesis: "Assessing Exhibit Interaction through Bridging the Connections Between Biometrics and Traditional Tools"

Publications ____

CONFERENCE PROCEEDINGS

Zainab Iftikhar, **Yumeng Ma**, and Jeff Huang. 2023. "Together but not together": Evaluating Typing Indicators for Interaction-Rich Communication. In Proceedings of the 2023 Conference on Human Factors in Computing Systems (CHI '23). Paper

Ian Gonsher, **Yumeng Ma**, Ivan Pineda-Dominguez, Matthew Lee, and Yuxin. 2023. The Mixed Reality Passthrough Window: Rethinking the Laptop Videoconferencing Experience. Human Interaction and Emerging Technologies (IHIET-AI 2023): Artificial Intelligence and Future Applications. *Paper*

SHORT PAPERS & EXTENDED ABSTRACTS

Yumeng Ma* and Jiahao Ren*. 2023. ProactiveAgent: Personalized Context-Aware Reminder System. In The 36th Annual ACM Symposium on User Interface Software and Technology (UIST '23 Adjunct). Paper

Research Experience ___

Brown Department of Neuroscience

Providence, RI

COMPUTER VISION RESEARCH ASSISTANT

2023 - 2024

• Built a visual prosthesis system for blind and low vision users to locate everyday objects and identify surrounding text.

UCLA HCI Lab

Los Angeles, CA

HCI RESEARCH INTERN

2023

• Led the development of a proactive reminder system that takes in user context, history, and spoken interactions by leveraging LLMs and personal agents.

Brown Department of Engineering

Providence, RI

DESIGN RESEARCH ASSISTANT

2022 - 2023

• Introduced a new paradigm for the integration of AR into laptop and desktop displays to enable local users to interact more easily and seamlessly with remote users during videoconferencing sessions.

^{*} equal contribution

Brown HCI Lab Providence, RI

DISTRIBUTED RESEARCH EXPERIENCES FOR UNDERGRADUATES INTERN

2022

• Designed novel typing indicators and found that they enhance user co-presence in written communication through in depth surveys and interviews.

ASU SoLET Lab

Tempe, AZ

PSYCHOLOGY RESEARCH ASSISTANT

2022

 Conducted testing and evaluation of tutoring systems to optimize learning and educational practices for underrepresented groups.

NASA Psyche Mission

Tempe, AZ

HCI RESEARCH ASSISTANT

2021-2022

• Developed a web app that allows users to interact with the Psyche Spacecraft model and led user studies with biometric data analysis that showed the app increased public engagement.

Work Experience _____

Infosys Remote

UI/UX DESIGN INTERN, LIVING LABS TEAM

2024

• Spearheaded the design of an accessible phygital UI that integrate emerging AI trends to optimize retail experiences for diverse user personas.

Brown + NASA Providence, RI

MOBILE DEVELOPER

2023 - 2024

• Led and developed a sound and haptic-enabled cross-platform mobile app to help blind and low vision individuals explore and learn about space.

Civilience Remote

PROJECT MANAGEMENT & UI/UX DESIGN INTERN | LIAISON BETWEEN FRONTEND AND UIUX

2023

 Led the UI/UX team to design a web-based app with interactive health data visualizations and built reusable components for a consistent design system across the product

Awards, Fellowships, & Grants -

- 2024 NSF Graduate Research Fellowship, NSF
- 2024 Paul G. Allen School Fellowship, University of Washington
- 2019 2023 Microsoft DisAbility Scholarship, Microsoft
 - 2022 Google CS Research Mentorship Program Fellowship, Google

Teaching _____

Spring '22 CSE 365 Information Assurance, TA for Adam Doupe and Tiffany Bao, ASU

Extracurricular & Work Activities _____

2021 - Present	Member.	AccessCom	nuting
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2022 - 2024	Master's Representative, Brown University CS Diversity Committee	Providence, RI
2023	Student Volunteer, UIST	San Francisco, CA
2020 - 2021	Microsoft Support / Xbox Advocate Contract, Microsoft	Tempe, AZ

Skills____

Programming Python, C/C++, C#, Java, Unix/Linux, ROS, APIs, Git

Web/Mobile HTML, CSS, Javascript, Typescript, React, React Native, Vue

Game Dev Unity, OpenGL

Data Jupyter Notebook, MySQL, MATLAB, JSON

Design UI/UX, Adobe Creative Suite, Figma, Wireframing, Fusion360, Blender

AUGUST 10, 2024 YUMENG MA · CURRICULUM VITAE 2